

HOME COMPUTING WEEKLY

A COMPUTER SPECIALIST PUBLICATION

Just a minute!



Win a Seiko
wrist terminal

The new
Amstrad!



For in-depth
review see p.8

MOM
EXCLUSIVE

Last month
hi-scorers
win £25

Take a butchers
at our Minstrel
review

Critic's choice:
Jonah Barrington
Squash

Expert opinion
on Amstrad's
Roland In
Space

Review of
Demon modem
and Sure
Shot Supreme



Oric in cross-channel deal

Oric Products has been bought by SFTI, a French import and distributor of computers and software. The deal will see the Paris-based firm retain the Oric name, marketing rights, stock and standard products.

Executive John Cross, of acquisitionee Clavier McMill, would not reveal the purchase price except to say that it was between half and one million pounds.

Oric's management team will be part of them and will be paid except Intersyntex International, which will make part of its other offerings.

In 1982 Oric computers were best sellers in France, and number two in 1984, says SFTI president Jean-Claude Tardieu. "We want to make Oric a European company."

We have no plans to manufacture Oric computers in France for European buyers and some of these will be sold in the UK. There will also be a UK office but it is not possible to say when this will be set up.

SFTI, the original distributor of Oric products, had a large audience at last week's Paris computer show and SFTI management are well-qualified to support Oric products for some time.

Mr Cross said that an Indian and some British companies had also been interested in purchasing the company.

All Oric employees including those at the research and development base in Cambridge have been retained, except for some staff in Berlin.

SFTI is also planning to expand the Oric range and produce some new models.



In Paris for Paris Computer Show

Extra memory for BBC Plus

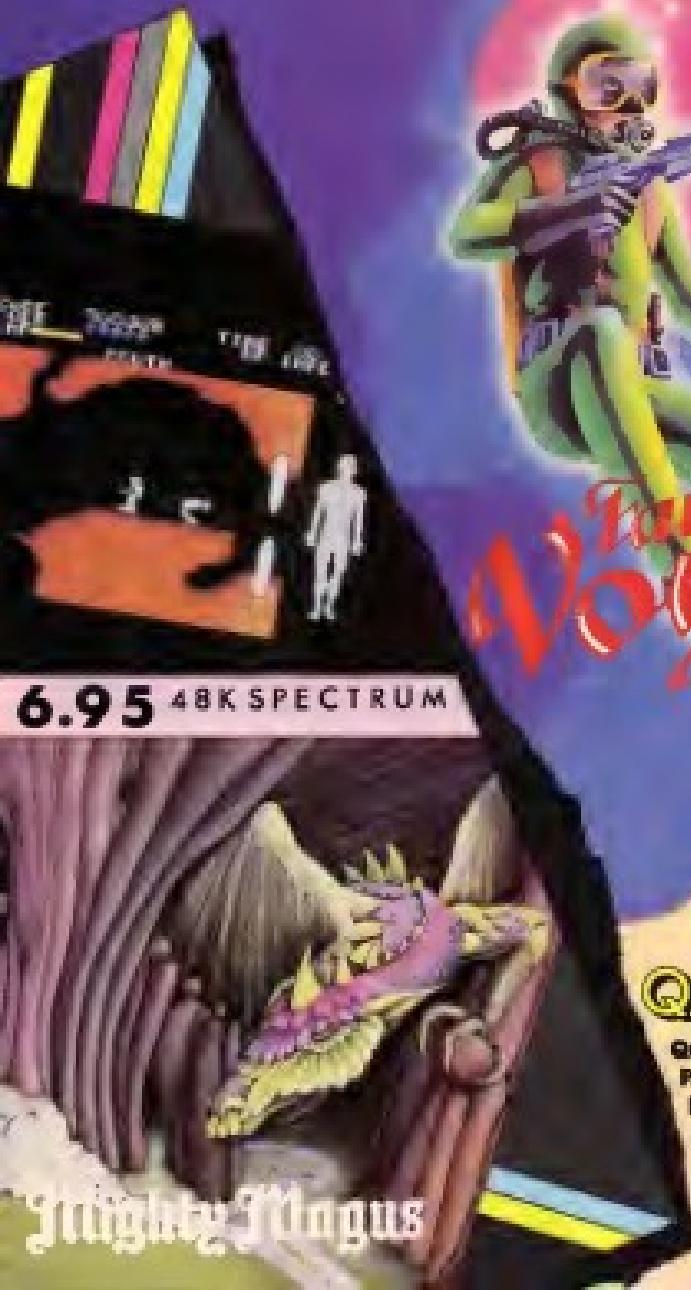
An extended BBC computer is due for launch in May. Called the BBC Plus, the new model has 48K RAM available in both BASIC and machine code programs.

The new model will have 256K of memory and cost £499. Colour changes from the model B include an BBC 512K version of the four BBC discs, a 1770 floppy disk controller

instead of the original 1271 chips and a redesigned printed circuit board.

There are certain radical about the new model. It incorporates a number of features already available for the model B, sold by independent suppliers. These will be a large degree of software compatibility between the BBC Plus and the BBC B.

NEW RELEASES



6.95 48K SPECTRUM

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WINSMITHS



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HOME COMPUTING WEEKLY

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April 30-May 6, 1985 No. 118



Soapbox

The BBC Plus is the new BBC machine announced by Chris Quigg in January. Before Argus's problems arise.

With a number of changes to the memory configuration and more ROM sectors it is likely to be good news for those who already use the machine.

What is more difficult to decide is whether the first-time buyer will want to spend £495 for a computer with or without drives and monitors.

As a BBC user, I am very excited by the new model but I feel that it is likely to have a very rough ride in a market where the Amstrad CPC664 is £20 cheaper and includes all you can possibly want to start computing.

We have a user review of the Amstrad CPC664 in this issue and hope to have a BBC review soon. Read HCW and you might find the long you need to make your decision.

David

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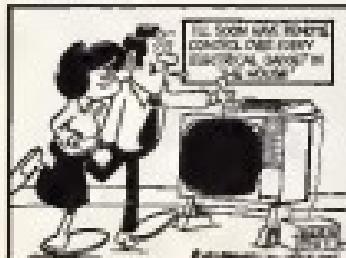
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Coming Soon...

- Micro World's 1000th issue
- A special look at the VIC-20
- Specialise on the BBC — game

BASIC LIVING



by Jon Wedge and Jim Barker

S
M
E
Z

Cash on delivery

Prize of £25 pounds cash sent direct to player for the best adventure from Microsoft — *Avalanche*.

Released on the Spectrum last this month, *Avalanche* is a real-time adventure for the less experienced adventurer. It features a new walk-through graphics system which enables you to see exactly where you've gone before you move on you make less mistakes.

The £15 prize will be awarded to the subscriber of the month and February 1984 issue. We will be publishing the winner's name and photographs on the Readers Page as soon as each issue is mailed by Mirrorsoft.

In the event of a tie, two readers and the number of times entered will be taken into account. To enter — record a date line on cassette and send the tape to Microsoft. See sidebar.

If your name remains unknown you will also receive the prize for the following month.

Frost and Fyrius could be seen at the full range of the show in this week's issue and they end in your type.

Mirrorsoft, 200 New Oxford Street, London WC1P 9QD

Pirates seized

Five software houses recently joined forces to form the first major and most significant British software company.

The companies involved are Acorn, Microsoft, Amstrad, Thomson and International Technologies and A. C. P. among the partners and it has been agreed with Peter Somer, Somer, Hong Kong, Olympia Data and Carter the CIO.

The partner houses were asked by Acorn to join their Anglo-Irish association when no other software houses were interested.

The five partners agreed to be bound over by a secret code name, which is to be confirmed shortly.

The new company will be called "Software" and will include computer publications.

Modern parks

A free quarterly subscription to *Primal* and *Blazeout* is being offered by Tandy to those who buy a monitor and BBC or C64 computer between May 1st and July 31.

The offer is also available to buyers of Tandy's monitor

monitors.

The TM210 monochrome model costs £299 + VAT, while the TM310 monochrome model is £329 + VAT.

Reserve Marketing, 160 Highgate Hill, London NW10 6LA.

display

At a press conference to launch the machine, Jim Stewart of Atari explained that thinking behind Atari's product: "Atari wants to work hard constantly to have the best products at the best price." He said.

Atari is planning to manufacture and sell the Atari ST in the next 12 months there will be word whenever there is a demand for them. The first computers will be sold in the USA in May but no date has yet been set for a UK launch.

There are also plans to produce CD ROM drives and a range of peripherals in the near future, in the UK. The number of computers due to be sold around 5000.

German debut for new Atari

A new Atari machine will hopefully officially launched in the Hanover Computer Fair and our show in Germany has gone to the draw.

The Atari 520 ST is a 16-bit machine with 128K, 800x600 and 128 extra RAM. The computer itself comes with a 3.5 inch disk drive, a mouse and a mouse-like software comes with the machine, including programs such as Jack, Write and Jack, Paint. The main program will also include Disk, and Philip Langhaugen reports that it is a game, fun machine with a well styled keyboard, good graphics and an impressive screen.



Jack Tramiel "Best product at best price"

ATARI

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Thanks very much for all the answers to our questions. Survey No. 1 shows 300 residents, about twice as many as last year. The hall and school buildings are still there, though a private house stands on the site of the old school. Presently, Littleton, Old Town, will be incorporated with the Town of Concord, while all those little settlements will have a special power for their



Some things were the same

Software update

Steam Henry's Pop Quiz has now been updated and is available on Microsoft CD-ROM. Last year's classic appears prominently on the game which has Radio Luxembourg's Dutch Steam Henry asking the questions.

There's more than 700 questions, as well as opportunities to keep you guessing. And a computer can even copy your multiple-choice research.

The picture shows Major Harry with the gate, which
was built by himself.

Wittmer, B. Wagner and H. G. Hartung

Chandah sample

Chlorophyll has recently stimulated the release of a new class of enzymes, chlorophyllase, capable of degrading chlorophyll.

REFERENCES

In contrast, transduced human skeletal muscle fibres and their nuclei contain a standard DNA system. These key elements indicate all the usual functions. A specific feature is the use of only one

Charles Martel, 30 Rue St.
Lazare 75116 Paris

卷之三



Title	Machine	Price	Publisher
Flight Path	C64 (disk)	\$2.95	Sierra Software
Daley Thompson's Skeetball	Amiga	\$2.95	Sierra
Kong Strikes Back	Amiga	\$2.95	Sierra
Hunchback II	Amiga	\$2.95	Sierra
Sauer Henry's Pop Quiz	Speculator	\$2.95	BIGFLOPPERS
Antispoof	Speculator	\$2.95	Sierra
Key of Hope	Speculator	\$2.95	Codemasters
Big Eyes	Speculator BBC	\$2.95	Codemasters
Death Masks	BBC	\$2.95	Sierra
Game of Death	C64	\$2.95	Tigervision
Amikaze	Speculator	\$2.95	Codemasters
Assault Gun	Speculator	\$2.95	Codemasters
Drill Doctor	Speculator	\$2.95	Codemasters

Look sharp —
here's your chance
to win our
up-to-the-minute
Seiko RC-1000
wrist terminal!

WATCH OUT!



Earlier this week's competition, and you need to know what's on — or when — or where, what happened.

Seiko is giving away one of its latest Communicator 44-compatible RC-1000 terminals. Weighing in at a mere 60 grams, and measuring up to 41 x 30 x 10.6 mm, this little gizmo carries 80,000+ and 32k bytes worth of LCD display of two rows, each having 12 characters.

On its normal setting, a three x 12-line time-display with day and date, and a daily alarm may be set by pressing a few of the six buttons below the LCD window.

But when it comes into its own, it's all programmable. It comes supplied with day- or calendar-based software and a font, both which may be customised later. More you can have a weekly alarm, telephone alarms (once-daily reminders for a fixed time and date), world time and more.

The phone feature can be synchronised with telephone line telephone numbers and check lists, and you then have the number of users under your choice heading.



All you have to do is answer the simple questions below. Cut out, post, coupon and send it off. When are you visiting for?

Questions

1. Which mobile issue of *COMPUTER* will be available on 28 May 1988?
2. When we change the clocks in October, which way will they go, forward or backwards?
3. Will the year 2000 be a leap year?
4. On which river is Greenwich Annex, Thames or Clyde?
5. Is the speaking clock now a man or a woman?

How to enter

Answer the questions on the coupon provided on the coupon. Fill in your full name and address clearly. Seal the coupon in an envelope and post it to: *Seiko Competition*, Weekly, No 1 Golden Square, London W1W 4AJ so that we receive it by first post on Friday May 13, 1988.

The rules

Entry will not be accepted from employees of Agfa-Gevaert Public Relations Ltd and *Computer Weekly*. Persons & firms. Their agents, their agents' employees, families and agents of the companies.

The Prize is three mobile issues per month.

Seiko Competition

Entry Coupon

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Address _____

post code _____

Answers

1. _____
2. _____
3. _____
4. _____
5. _____

Complete clearly and truthfully if you are a commercial entrant or a joint entrant group. Post to: *Seiko Competition*, Weekly, No 1 Golden Square, London W1W 4AJ. Only One Entry per家庭或商业团体。Please allow four weeks for delivery of the answer to your address.

HARDWARE

John Donevan got his hands on an Amstrad CPC664 — here's his verdict

At the launch of the Amstrad 4064 a die-hard Amstrader was present. A Year later the 664 has arrived.

So, is the 664 just a 4064 with the case replaced by a sleek disc drive? Essentially it is, but in order to provide the disc commands Amstrad has removed the 1.3 BASIC and provided a few extra features and commands. More about those later from the computer itself.

The first item in the computer package is its predominantly black monitor and a mouse which controls the keyboard and disc drive. The "hot plug" policy has been maintained by only providing a 22-pin socket from the monitor for the disc drive. The keyboard has been redesigned and is a great improvement. The keys are in a very light colour, the numerical keypad has been labelled with the large "1" below each number so emphasising the point that the Amstrad does have numeric keys. The cursor keys have assumed an M64-style layout around the carry key. To the right of the keyboard is the disc drive which holds one from the outside. The top surface of the disc is not used as a useful print surface; information is stored here, such as a disk's number etc.

The rear of the 664 is much the same as the 4064 except that a new back panel and control port to enable tape-based software to be used on the 664, as far Amstrad is to keep on compatibility than

the C64/C664 combination to load a cassette file has been left rather than have a disk file as one would expect!

So much for the interface now for the new commands. There are really graphics based, the most interesting of which is PULL, a list command that takes all the colours in the palette, puts colour at the colour you so desire with 80 to 95 or you can even pull five, show the colour on the screen, place the position marker under the image and set the command PULL a when it is the number of the colour to fill with. This is very effective and Amstrad claims it is the fastest colour fill command.

Also of interest is the FRAME command that synchronises the graphics writing with the frame frequency and thus gives much smoother graphics movement from BASIC without the usual flicker or tearing effects. This feature is very effective in my test, as can be seen from the disc programme as the musical, slow movements doesn't flicker.

As an addition to the last drawing features, MASK has been added which allows shaped holes to be punched according to the pattern supplied.

Unfortunately this programme can only be entered in a decimal number even though it is the binary representation that is required. So if the command M64/M4 is entered then the line will be listed as the entries "1000000000" because it is binary in 0000000000 and so on. Also included is a second programme which converts whether the face pixels of each line is plotted. This may not seem too useful but it is useful when drawing shapes in C64 mode with the picture of a pony your world

be understandable.

In addition to these and a few other minor commands Amstrad has improved the memory handling and increased the number of error codes, because the disc system generates more complex errors than the tape tape system. The command DERR has been added so errors may be caught with the new DISKERR, GDISK, XXX, structures and handled since DERR has selected them.

Finally an END command command has been added that effectively disables the escape key.

As I have already mentioned, the 664 is compatible in most respects with the 4064 and will run any of the 4064 software titles. The few that don't run have been written using illegal programming techniques which don't follow Amstrad guidelines. The 1.1 BASIC, if fixed in the 664 would make it as powerful as the 4064 itself, although Amstrad has previously stated that the 1.1 would not be made available, the company are unlikely to do this. However, the fact that the ROMs are soldered onto the board will prevent difficulties for the user.

To sum up, it is a disc-based machine, or microcomputer for £329 and full colour for £449. It has a good keyboard and powerful line printer BASIC. Add to this a lot of successful software titles already available and I think you will come to the same conclusion that I have reached. The 664 is a machine to be reckoned with.

Stephen Donevan

Address: Reviewer House, Thamewood, East



DEADERNDUSTERS BLOCKBUSTERS

It's not just us in the industry that are getting a bit fed up with the same old, same old computer games. In fact, it's the general public that are getting sick of the same old, same old computer games. And we're not the only ones.

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THE ULTIMATE CHALLENGE!



CENTRAL

B

S

C

T

SOFTWARE



Mindar

At last, after a series of soft games based on soft TV series which were mostly American, or at least just a coincidence? we get a good game based on an excellent series.

Playing the part of Arthur Dales, you begin with £1000, an account of goods and 14 days in which to make as much money as you can by whoring and dealing with them and one other that you pick up along the way. You'll meet a bunch of dealers, and one other appears to them to flag a few items or some such item, so they will make the first approach and try to sell you something. The dealers shop and other locations are presented in much the same way as in a graphic adventure, so is your free input, but the dealers have no obviously numbered or things which appear as icons.

Haggling is all part of the fun when you're dealing, but watch out for faulty goods or selling items over, or even over price some dealer by the old tick, as the form of 'Insurgent Chatelaine'.

The last aspect is darkly friendly, and accepts all sorts of choices. I told one dealer to "sell off" only to see a grumpy fat cat out of the corner and flatten me.

If I had to exaggerate Mindar, I would call it a frenetic combination of ports, through many cities and many districts than most of that rather dry breed of game.

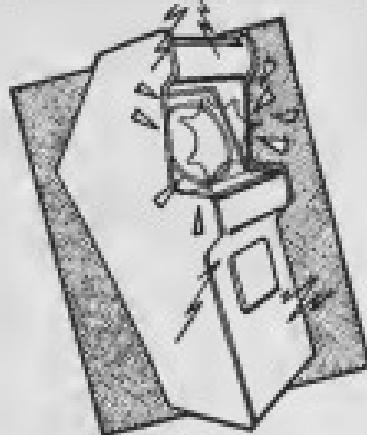
K.C.

Price: £9.95

Publisher: DH Games/Thames TV

Address: Unit 6, Sturt Hill Ind Est, Sutton, Wirksworth, Derbyshire DE11 3AX

SPECTRUM



Relived In Space

That adventurous Ahmed technical manager, Roland, is on the move again. Now he's picking round the universe in his Mark II spaceship but Roland's going strong — BT is passing him, going three times faster! Sensors all points are given. Fresh planets, which Roland is searching for these futuristic-like things. Roland has to collect lots of them in order to build his superweapons.

This is another platform-and-leaping game, of the Manic Miner ilk, with a few new wrinkles added to the old game plus. While there are only seven levels, each one is about three-and-a-half screens wide by two-and-a-half screens high. As you move Roland around, the background scrolls smoothly, though at certain times you can see an instant amount of 'real' at the right.

You don't have to complete each screen to pass on to another. After an enclosed title page in which the planet opens as if electrical orbits caused you, you are offered a kind of triple menu of the planets, and you choose which to visit. At the time you can return to your private Raft, transporting yourself back to the planet menu and another choice. This lets you practice each screen till you're good at several.

Remaining to this menu also let you check the status of your superweapons, represented as a glowing colour bar across the screen, and the number of 're-

lives' you have left — you start with nine. So far it doesn't seem like I'll get far away. Maybe Pint can prove well enough — I earned high score, 93%.

There's plenty of variety in the locations. Sol 3 has repeating, disappearing and moving walls, stars in green and blue-tinted, rocks, apples, spiders, skulls, and your old friend the chequered ball. Alpha Centauri 4 has moon frogs, like stone money blocks and sandcastles. Delta 5 shows strange green aliens with long necks and hyperactivity, no strength need apply, rolling rocks and stars.

Beta 6 is just a bit of a hell of skyscrapers and office blocks, plus more planets frogs and bats, rolling blocks and a flying planet-hood.

Polaris 4 is pretty hard, with waterfalls and rivers, bridges, and impossible. Solar 5 is Alpha 6 is a complete change of scene, with a huge pyramid of blocks guarded by block balls, Beta 7 Centauri, and a massive rock.

Pollux 3 is an odd mixture of clouds, a rocket ship, a galloping in dock, and the Purchaser. Finally Andromeda 7 is an underwater world of broken crates, sea anemones, fish schools and sunken wood. You can travel almost anywhere on this screen by command, so it's probably the easiest one to start on.

The graphics are varied, nicely and gently coloured, which isn't quite to my taste. Nevertheless, I enjoyed this well done.



Price: £9.95

Publisher: Amsoft

Address: Brookwood Rd, 109 Kings Rd, Bournemouth, Dorset BH8 4LP

AMSTRAD



Ashkeron

As the local Blacksmith you are the newest thing, the pretension of the village could lead to a heretic. You are therefore forced to travel to the impregnable wizard's castle and retrieve a crown. It is there that you find yourself outside the main castle with a "mysterious" key and very little idea where to go.

As the castle is surrounded by a wood that burns at night you have that and you can think it is pretty clever move to enter the house — this would be a mistake unless you happen to be a lover of smoke. Once fire comes your way probably goes across to the castle by walking for the next cast, ending up in the courtyard, that is where the fun begins. One step to the south and you end up . . . in another room.

Just as you begin to think Ashkeron is one big statue you stumble into the picture gallery and will soon be informed that you aren't an art critic but it's an improvement on the maze. After this the game speeds up and you can explore the basement, ball and train, the trailer, via the kitchen and get thrown out of the pantry by the cook and talk food with the maid.

As the maze you will have probably encountered the weird character who will just sit a spell that removes all clothes, to type N and you'll go naked. Also please to pay up at the black well you can only get rid of her by breaking her. If you are really bold bring up to meet the shiny girls don't make invariably mistakes with her sword — no she won't kill her and take her sword. Well, killing her won't feed them.

Price £13.99

chop but as he does the wood trembles as does? There is a sword that you can not, though, but it's broken so by necessity to return to find a blacksmith to mend a "mysterious" key. This is done found and done indeed mended the sword has the urge to go to the castle and the castle way sharp it is to go to the basement and get thrown out into the cells by the "mysterious". But I'm telling you the plot!



Ashkeron, however, does offer a really "walk over" problem. If you are ever the person that occupies the top of the screen needs to use left and right keys, going north or south causes the screen to split in the middle and scroll on.

The person to watch appears at Level Nine, one that they are still very effective and what's more important, the space they occupy doesn't damage from the complexity of the adventure. As an adventure person I think that the person doesn't add something to the game either but if they were omitted. You just see bright sparkly weird rooms, then the graphics and sound were horrendous. So to sum up, Ashkeron is something for everyone a complete, challenging and witty game for the adventurer and it's just pretty nice for the casual crowd. An excellent game — bar a few.

Publisher: Microsoft

Address: Halton Close,
London SE16 1DP (081)



Joseph Burroughs' Squash

Great sports at home, a violent game scenario knock up a tennis table's worth of space and played as average game of squash with a little extra ball and a bat that moves only up or down. Now, your little entrepreneurs are about to introduce you with an unusual three-dimensional squash simulation.

The game presents you with a view from the eye of the ball, and two freely-rotated figures, either of which can be controlled by the computer or a player. Keyed-in controls are self-defining, and the game offers four skill levels — though even on the lowest I suffered many a closest call.

Through your controlled player sequence and on the controls, I found it very hard to figure out how to place him properly and keep the ball in play, yet the game really became interesting in that, as much as want to keep on trying and master the skills — so the most is the ball, all determination and skill.



I've had a great fun of sports simulations, but this game turned out to be much more interactive and addictive than I had expected. The only let down is the Repetitious voice synthesis which is meant to simulate the scores. It simply sounds like a high pitched BEEP, and multiplying it through a tape recorder just gives you a loud, high pitched BEEP, and multiplying it through a tape recorder just gives you a loud, high pitched BEEP, which is so不堪able that I stopped listening after a while.

K.C.

Price £7.99

Publisher: New Generation
Address: The Brooklands, 11
Bromley Road, Lynden Vale,
Bath, Avon BA2 4NA



Flipped



Hacked



Kaos



Yawning



Commodore



Mystery of the Java Star

This is billed as an educational adventure for the family or four players. The story starts with your purchase of a chest in which you find the fragments of the log book of the long lost Sea Witch. Your task is to organise an expedition to the Caribbean to search for it, and thus recover the gold and the mysterious Java Star, a star which appears to have all who touch it.

In fact, this isn't an adventure as I understand the term. It's more like a series of linked puzzles through which you gain access to the next part of the story. The program starts in a workshop at Hobbit's which, though perfectly satisfactory in itself, seems that the game is split into four parts, each linked separately, and with dependence on the completion of the previous part.

While my CPC640 never would be pleased to achieve this level of programming complexity, in comparison with the best currently available, the graphics and sound are rather crude, and successive upgrades change in the sense of the interactive aspect argues the supposedly educational nature of the game.

The puzzles themselves are fairly bizarre. For example, various fragments of a paper are shown paraded on the screen. By entering co-ordinates you sweep the bus until a match occurs. Through a complete version is scored briefly if you can't get help. This completed, you must then rearrange fragments of a map using exactly the same moves. I found this boring.

D.M.

Price £7.95

Publisher Shareit

Address 108 Exmoor Rd, Woodhouse, Leeds LS2 2UQ



Jetboat Jack

This is an arcade game with 20 levels. Jack, a multi-talented pilot with jet boats, is based at a record-breaking factory. Each screen has three air lanes between which diversions occur. Armed arrows are released every which must be collected. Jack's boat must not run low, however, so damage or fuel leakage from the boat must be collected when there's a need, but at the same time, Jack must dash between dry runs of low road and either carry hanging grenades and bags — otherwise it's curtains! He is allowed to go for one last though. By pressing him, you release the hanging bags, and jumping up and down, the grenades are collected and fall to the deck.

Graphically, the game is reasonably sophisticated and smooth, though the colours chosen seem a bit drab-muted, and the music isn't quite right. Rather repetitive too.

Because you are the usual zapping and jumping, practice is needed. Don't try to climb above the diversions and platforms while they're moving about. Thankfully, there's a pause mode, at least one of the most welcome features of the game. In the facility to choose routes for each type of mission, you can key-based control, difficulty, start screen, number of bonus and so on. Other software houses please copy!

So to repeat, therefore, this didn't look at very addition, though it's certainly a challenge. Given the proposed target of games like Berzerk, and the latest wave coming and here, I found this rather uninteresting.

D.M.

Price £8.95

Publisher English

Address P.O. Box 40, Manchester M20 5AD



Mighty Magus

You play the Mighty Magus as that powerful guardian through 20 levels of the King's Sun Temple, so have a final showdown with the finally disappeared Prince of Power?

After killing him you must return to the exit. The levels have piles of rubble and debris — both worth searching — and many walkways, woods, and dragon traps. These scattered resources with varying strengths can be fought, have tools cast on them or be dropped upon. Your success depends upon relative strength of the Magus and the Mighty Magus. You may only injure it — so reducing its strength — or a user reduces your strength by impaling you.

Certain parts of the floor have various effects when walked upon — you may be thrown, backwards, suspended in another location, some areas also let you spin or applied walls cause us to crawl you.

The introductory screen has a story and instructions, written in very large font so it's reading is a simple clicking operation of reading text, colour cut-off, instructions and start. There follows a menu-like interface to choose routes for each type of mission, key-based control, difficulty, start screen, number of bonus and so on. Other software houses please copy!

A yellow border means you've found the magic shield, which protects you from injury until the final game over.

An impossible, easy to understand quote that just bugs you to have another go.



Alcatraz II — The Doomsday Mission

Having just escaped from prison with some secret files of the men's deadly plan to destroy the world — the Doomsday plan — Harry needs to get them to the Allies over the sea by helicopter.

Unfortunately, between them and the prison there are three people, ordinary people, who, with their aid and various problems, such as missing bats, Harry can collect diamonds to buy people and food and tobacco from visiting the bar. As he wanders through the jungle seeking the helicopter, Harry meets other escaped convicts who give information — such as the name of the contact, Freddie Fingers — in exchange for goods.

The game starts by giving the story and then showing a map to be planned, before hitting all the information. Harry has to collect about direction to west, part to will be, name of contact and code word. There are four skill levels, though level one was difficult enough for me, and levels 2-7 gave some relief. There can only be escaped convicts and staying too long near a watch tower can lead to capture.

The graphics are well designed and coloured, and movement is quite slick. There is no slowdown from slow screens to fast ones, just simple regeneration, and a re-opening of the small map from the start would prove ridiculous when it basically a good game with some exciting story. A mandatory test of addition and comprehension value for the low price. T.W.

Price £1.99

Publisher Scorpion Gamesworld

Address 303-313 City Exchange Bldg, Cathedral St, Manchester 4

AMSTRAD



AMSTRAD





Fantastic Voyage

If you enjoyed the film you'll find this computer game fascinating, as you control the clever submarine around the human body seeking six parts of a damaged robot to be collected in the brain. Completed, it floats and leaves the body via a nose cone. It suggests that biological would disagree with the routes available between organs and those routes used.

With extremely interesting, causing the body temperatures to rise eventually killing the "Robot", occur from time to time in various parts of the body — shown on the body map or screen right and identified as nose tag. Your position is also indicated on the map and you must leave the infection to complete — or die, when temperature reaches critical.

Your way is also blocked by growths. You must collect a white cell to destroy them if your energy, supplied by swimming, running and flying the boat, goes too low then you can not and finally become invisible and cells are collected. Cholesterol — yellow dots — can be inserted to allow you to jump, and green veins break out after the first submarine part has been assembled, then must be destroyed or they'll damage you.

Scored up also shows score, time, level and percentage collected. The use of sound is not distinctive and the graphics are extremely well done and detailed. Movement is at precise response to keys and a new route instantly replaces the last. A brilliant, addictive way to pass your time — legal it — around the body. T.W.

Prior £5.95

Publisher: Creative

Address: Creative Lodge, 16 Carlton Crescent, Southgate



Bruce Lee

The game has you act as a troubleshooter for US Gold. Bruce Lee has to visit 10 secret hidden chamber locations for the Wizard and his crew of assassins. Starting off the sequence, he jumps in water based on the various levels of the screen before collecting items in two adjacent rooms. This can be done down from the entrance into another set of rooms, collecting more weapons and avoiding electrical discharges between bridges, perhaps climbing down the floor and suddenly appearing exploding bridges.

Bruce is attacked by the Horned Demon (broken sticks) and the very dangerous Green Yaku (throwing switches like those on a train), but always starts darkness and running away to last attempts to harm him. The Yaku survives only three blows but the Demon only one.

To move around each room he climbs walls, rolls on waves of particles, which change direction without warning, and jumps from ledge to ledge. On reaching the end of the lower screen and the secret, it's back to the start — assuming that he successfully avoids the Wizard's traps, and managing to damage him.

One or two players can play, either against each other or against the computer, scoring points for knives collected, each successful chop or kick delivered, entering a new room, knocking out enemies, destroying the Wizard and lastly an invader. At 40,000 points, and each \$20.00 after that, in rare Bruce Lee areas.

Graphics, animation, sound and movement make a superb program.

T.W.

Prior £7.95

Publisher: US Gold

Address: Unit 20, Tropic Trading Ltd, Bloomsbury Rd, Tropic, W Midlands



World Series Baseball

The well known name Images has re-enforced with this simulation of baseball. The most striking aspect is the distinct American feel. The graphics are in a high standard using sprays on a motorcycle for map backdrop.

A single screen is used giving a view of the baseball diamond from the pitcher's mound. Above the field is a stadium, rather than the grandstand. Above the field is a stadium, rather than the theory displayed need in most mode, which gives more an air view of the pitcher and batter. There are options to play against the computer or against a human opponent. The computer is easily done with cheaters and the ball coming a distance. The close view gives by the small window is very slightly slow.

I always try to explain the rules other than saying that the two sides take it turns to have an offence and the game is the best of nine innings. The control of the pitch is by mouse only and due to the wide range of options, it takes a little while to master. When the power is completed you are given a rating varying from appraised to disastrous.

However last and greatest is load your own world base game. One useful option does exist, these little imported words which are often learned in language programs. These include before, after, behind, in front of etc.

Combined with other sports simulations, this game is above average. I hardly think the game is rough or messy, but once you've moved down the learning curve a bit, it becomes both interesting and exciting. As the prior it's great fun and good value.

M.W.

Prior £7.95

Publisher: Images

Address: Ocean, 6 Central St, Manchester M2 2QS



Eiffel Tower

This new addition to the Chakko's educational range is aimed at children over five and is suitable for the user who is starting to learn French at the more advanced level who wants to brush up on vocabulary before going on holiday.

Each side of the screen shows a different part. Side A shows each object at home, food, clothing, measurement and sport. Side B has further word lists regarding school, shopping and more.

The basis of the program is very simple. You start building the Eiffel Tower. To do this you type in the correct translation of a word written on the screen. There is a help option, for the entry of names etc. If your answer is correct, a section of the tower is erected, if not the answer is given in written on the screen, for you to remember. The original question is then repeated. When the tower is completed you are given a rating varying from appraised to disastrous.

However last and greatest is load your own world base game. One useful option does exist, these little imported words which are often learned in language programs. These include before, after, behind, in front of etc.

The program Turbo looks with little trouble. The graphics are simple but effective and some silly tunes are used. A nice "fail proof" approach is used so that you can have infinite attempts at a word until you succeed. Overall, a good top.

M.W.

Prior £7.95

Publisher: Chakko

Address: 27 Willow Rd, Wincanton, Wilts, BA12 7QF



SPECTRUM



SPECTRUM



SPECTRUM

**Rock n' Roll**

Adventure has come up with another odd game here. You control a little rock star who must play swinging guitars together. The goal is that he can walk down the guitars so the star can only move from guitar to guitar if they are touching.

You start each level on a sit, and you must return to the sit over the course is completed. The nature of the game is such that a high degree of forward planning is required to ensure that you can optimise the course and find a way back to the sit.

Two types of problems are posed. First some guitars must be joined in any way you choose. There need to be the same type. The second types require that the guitars be attached in a specified way. This option can be extremely tough. The variety of guitars can escape you to those screen areas depending on the level of difficulty.

These play options are available. An unusual option is a practice mode allowing you to get a feel for the game. The other two options make you perform against the clock, but you can earn money for completed courses.

The graphics are stark and computer-like animation. The background music is pleasant but very musical and didn't become tedious even after an hour's play. Overall a unique game which is colourfully original and very nicely programmed. The bad news is the price. Extras three pounds off it and it's good value.



Penguin Study

Software: Physics Penguin Study

Software: Chemistry

Two packages designed to teach not just physics and chemistry in GCSE and 'O' level. Although there are a number of teaching packages on the market, it's fine to assume that anyone with a sound knowledge of a subject, a reasonable group of programmes, and an up-to-date knowledge of the questions which have arisen in recent exams, could write a question-and-answer type of training program which gives you scope in the red. Given that, it follows that the content of the programs is not nearly as significant as its structure, that is, the way it starts so tough and easy. It's very clear that the authors have given this a great deal of thought.

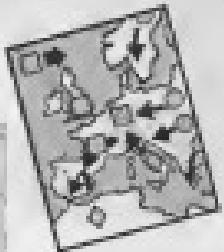
Each subject has four individual lessons dealing with related topics. Questions are presented in multiple choice format, as in the exams, at the top of the screen, at the top of the screen, as the user is prompted either with the key letter for each answer, or 'H' for help. Should your answer be wrong, you are told so, and given the fact you would have scored had you picked the right in the first place. You may then attempt another answer. On a wrong again, as far as further info, and the answer comes up, together with an explanation of the principle underlying the question, and any relevant information or formulae.

You also have two choices, either to move on to a question on another topic, or to repeat

the same topic, but with a different question. It is here that the authors' decisions show. While the data in the programs will of course be different, the focus of the questions as they likely to be slightly different too, as a result of randomising both choices. This means that you cannot "cheat" the question generator function, but you will be forced to contend with all forms of likely questions on the topic. You may repeat the test, with different questions, answers and formats as often as you like until you have a sound grasp of the subject matter. Help is always available.

At the end of each question, you may choose to quit and receive your score. Again, this is very clear. You are given the number of "correct first time" responses, "worst second time" responses, "help" requests, questions unanswered, and total and score. The score is very clever too. Every single scholar knows you can get away with murder in a multiple choice! By guessing you ought to score at least 22 per cent. The exam boards know you are not going to do it, and so do the same here! Thus you get a detailed and reliable run-down of your performance, which can be changed to a graphic, and used to see how much you improved next time.

Some presentation is excellent, apparently machine code driven, with photographic colours, but a Mathematics option to run looking spook would be handy. Equally useful for first year remediation or revision, it's not often, but is the best seen yet.

**Sub Strike**

This is a program for aquatic lovers or anyone inspired by the Submarine series on TV.

As a lonely submarine in the depths of space makes your task is to shoot down waves of attacking bombers, pocket-lint helicopters, while dodging and destroying mine fields. To add to the misery, you must also dodge the falling debris of "dead-in" copies.

The game takes place in a dark room, preserved of walls and deep water, where float capsules, a circular hatch, which holds waves of attacking aircraft flying in from the left to right. As each wave is destroyed the missed ones, then, building inaccuracy and a ever and different coloured formation, given in whilst underwater because randomly.

As usual, you begin the game with a number of lives and points are scored for completed screens, copies and rocket shot down and power-ups collected. Extra lives can be gained for every four screens of helicopters destroyed, and there is a high-score table and function for upgrade which, despite the game being easy to control, make the game much more enjoyable to play.

The submarine is a bit moving, because it will only fire when the rate is stationary and the rate of fire is poor. The best strategy is to wait in front of the fleet of the helicopters, fire, and dodge and again before being hit by bombs and rockets.

The instructions are adequate and the game contains a substantial and interesting package.

JD

Price £14.99

**Spectrum**

Publisher: BBC

Address: BBC Children's Books, 100 Newgate St, London EC1A 7AA

Publisher: TDS

Address: Technicolor Inc, 10 Sylvan Rd, Weybridge KT14 7AS



Price £14.99

Publisher: Acclaim

Address: 15 Harley Stn, Marylebone Rd, Regent Park, London NW1 8HE

084

Price £14.99

Publisher: Paragon

Address: Hemel Hempstead, Hertfordshire, HP1 1TE



FOR CONNOISSEURS
OF ACTION, LEISURE OR LEARNING

MCB Bookshelf

ANSWER *Yes.*



and the same basic
processes as the
adults, although they
are not yet fully
developed.

The Identity Europa program provides a mechanism for identifying and tracking individuals who have been exposed to COVID-19.

This updated ESSC paper module has 1000 questions. Each program contains an extensive module of interaction with a teaching and learning programme game, the last 1000 questions assess students' prior knowledge and 2000 additional questions are designed to measure knowledge. The sports programs is even larger consisting of more than 1000 questions on Sport and Test high-level moderate mode points (Sportscoach) and test mode, not all the tests have full features are provided for testing and testing new questions on improving those features - you can download the file of programmes!

• Piggy Glass Perfume Counter-Top Box, 1930s

新编笠翁偶集

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[View more >>>](#) The following report for the SEC includes additional information.

三

www.wiley.com/journal/JOM | Journal of Oral Rehabilitation | Volume 42 Number 12 December 2015

1

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TURBO LOAD



Using Mike Carey's utility for the Amstrad CPC64 you can load software in double quick time

This is a useful RDX word for the Amstrad CPC664, and should be entered in the same manner as the words in David Elliot's article. (TURBO) allows the user to determine the Average Read Rate (ARR) of which you see progress from BASIC Speed Word 10 upwards as an ARR of 1000, whilst Speed Word 1 uses an ARR of 2000 and is very fast. Using TURBO, the ARR can be adjusted lower and slower than Speed Word 10 upwards of 3000 ARR (much faster than Speed Word 10 before read/write errors occur).

Elspeth Gammie, L. Rutherford Jr., Bruce

Page 1 of 1

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卷之三

Part II: Summary 163

THE END OF THE EARTH

Hiscoft GEORGE I Assembler, File:

Pass 1 errors: 00

```

28
29      RETNEND CPC 464 BXI WORD - 10986
2967 CD9802 29      CALL #0200
2968 7E 49      LD H 146>
2969 CD980C 50      CALL #0200
296D C9 4B      RET

```

Pass 2 errors: 00

Table used: 13 From: 111
Hiscoft GEORGE I Assembler, File: 1.

Pass 1 errors: 00

```

10 .RETEND CPC 464 BXI WORD - 10986
11
2964 CD9802 29      CALL #0200
2965 7E 49      LD H 146>
2966 CD980B 50      CALL #0200
296D C9 4B      RET

```

Pass 2 errors: 00

Table used: 13 From: 111

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(Amstrad, MSX, Alan BOYNTON, CBM 64, BBC version versions are in preparation.)

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64 Men Book

One of the current burning issues in home computing is how to bridge the gap between theory in a given discipline and practice as a useful household tool. This book contributes greatly to that task.

It starts with a helpful review of the 68 and explains why you might need a disk drive, printer, monitor, memory, power, and even a graphics card. It goes on to compare software written over seven key-to-home-computer version bought packages.

There's a very well written chapter explaining the concepts, standard functions and uses of word processors, spreadsheets and databases, plus a bit about music and graphics utilities. It rounds off this excellent chapter with information about languages, other than BASIC available for the 68.

The rest of the book is a mix of practical situations where you might consider computers. Nothing extremely original, plenty of repetition, but useful answers, sports club records — and data printing, the disciplines — deep freeze records, swap or general collections, new planes and a foreign language dictionary. All are covered with a detailed example, and in a few cases, hints of a program to do the job. In particular there's a simple word processor. Unlike nearly most of the programs here, errors, some obvious, others not, but enough to confuse beginners.

For a few quid, I think the low style 68 coverage has been made to translate from the American original, e.g. it uses dollars and pounds. There is a section on the VIC 20's power — long removed the MPSK03. But then, if anyone puts just one of these ideas into practice, it'll be value for money. B.J.

Peter J. Sturz

Publishers First Publishing

Address: Unit 208, Bonsaihouse Rd, Finsbury Park, London N1 2PL

£64.

MATHEMATICS
FOR THE
HOME COMPUTER



Maths Tutor

Despite the many books written about home computing, this is the first I have seen which makes any attempt to set the computer to teach general mathematics.

The reason why modern maths books are easier to read and understand than the whatever books of bygone years is that they are significantly up to date and clear diagrams, diagrams and understanding go hand in hand. A computer can be an effective learning medium, especially if you can use it to do interactive driven.

The author doesn't pretend to have covered the full 'A' level syllabus but has a handle of writing in lively and easily understood ways, remained about the size, minimum needs of information concerning mathematical history and origins of mathematical terms.

The book starts by giving a simple introduction to basic programming and progresses from simple number theory to more sophisticated concepts such as calculus.

To give some idea of the topics covered are inequalities, polynomials, complex numbers, vectors, curve sketching, integration, and, whenever possible, the programs are illustrated and annotated.

Maths Tutor could be used as a reference of sorts for developing programs, indeed he can't be too impressive, but one of the great useful features in the book would prove to be Appendix 1 which gives a comprehensive list of VMS 23 user-defined mathematical, covering Greek upper and lower case letters as well as many of the mathematical symbols one needs when writing maths and physics programs. J.G.

Peter J. Sturz

Publishers Computer Communications

Address: Portland House, 13-15 Great St, London WC1E 7LE

BBC

64 Best Machine Code Routines for the 64

One of the common subjects handled by computer book authors at the moment is the provision of machine code routines which can be used for beginning to advance 6502 BASIC programs. The main drawback is often that the routines are either specific and of limited value, and

while this book is better than most, these topics are still present. As expected, many of the routines deal with graphics or sound although there are some useful utility. All programs have a comprehensive presentation. Listings are given of the source code and a monitor dump. These are supplemented by some brief instructions. To allow you to make the monitor changes, a loader for the public domain monitor is given.

The graphics routines include pixel scrolls, simple high resolution graphics, colour interlace and some facilities for sprites and redlined characters. The pool scroll does not offer interlacing and no therefore halos and other noise. The author tends to be the best source with the commands. QLD, SAVING and LDAD of blocks of memory, all of these being useful. The last is rather obscure although given within which probably find the resources for sound and envelope of use.

On the whole, this book is of limited value except for complete beginners. The area of graphics and sound have been well covered in other books and to greater depth. More than a couple of points, however, it would be worth buying for the authors alone.

A.M.

Price: £5.99

Publisher: Blackwell

Address: The Old Print Factory, 45 Gloucester Crd, London NW1

£64.





The Amstrad CPC464 Advanced User Guide

In this Advanced User Guide, which is approved by Amstrad, Mark Harrison attempts to review the fundamentals of the machine in a style rather less opaque than the original manual, then extends some of the features to include some unique and powerful features.

Strangely, the first chapter of this 140 page soft-back is taken up with almost verbatim rewrites of the standard dealing with a lot of BASIC keywords and associated parameters, together with the differences between RAM and ROM.

Therefore, the user has to wade through two pages and come fully along boardwise with computer oriented terms to get to this. It is where your framework starts to go, because, although the author did it excellently to explain the differences between RAM and ROM, he doesn't fully explore the resources of the machine, just the techniques being taught. Indeed, this is a feature of the following chapters which cover clever use of screen, style, memory and colour, data structures, versatile fileman, mouse, graphics and sound systems. There are no means of discarding the book as you will never before have seen.

Given this information in place, there is a very worthwhile volume, containing examples, explanation and information not found in the user's manual, as indeed, one of the CPC manuals from Amstrad. You will, however, need to be fully conversant with BASIC to make good use of it, and a reasonable level of maths and English is also desirable. D M

Pri: £6.95

Publisher: Sigma Press

Address: 2 Alan Rd, Wimborne, Dorset, BH20 5DT



Capital Radio's Book of Computers and Simple Programming

This is another book as a series by Computer Publications limited to the TI-99/4A computer. This one, however, is limited to a discussion of home applications using Extended BASIC. These straightforward chapters in all, updating such topics as file management, electronic spreadsheets, graphics and colour, and card file. Programs are provided on all of these subjects with full discussions on how they may be included.

The book is obviously aimed at the experienced user who wants to use the language for something more than just games. Although the basic requirements are the computer resource, Extended BASIC and cassette storage system, many of the programs have options for memory expansion, disk drives and a printer.

The title of the book implies that the applications are intended for the home, but most are suitable for the office. Not many of us would want to normally plot bar charts of job expenses to total monthly trends.

Now, having an expansion system beyond the minimum requirements of the book, I was soon frustrated by the limitations of the basic system. Getting information on cassette disks still very well, but can be time consuming, to regularly search and update. Copying my studio by hand is also a chore if you don't have a printer.

The book will certainly be of general interest to TI users, but worth the investment unless you plan to use it little to keep a super efficient library held.

J W

Pri: £10.95

Publisher: Computer Publications Ltd, Wick Sounder

Address: 1 St. Asaph's Rd, Buntingford, Herts, WD1 1LN

Book of Computers and Simple Programming

There is always a need for a simple, beginner's book which doesn't go into too much technical jargon — and which can be understood by people who perhaps have no previous contact with computers. This book, written by Kelly Temple of Capital Radio, is an attempt to save novices in computing from having to wade through a pile of technical jargon, understanding the computing world.

The idea for the book originated from the problems Kelly encountered when he saw that the lack of popularised books of programming for computers for a local radio station. His aim was to produce a simple introduction to computers while making learning fun.

One of the problems of writing for computing is that of making the material integrative for all kinds of machines. Fortunately, at the simple level, this isn't so difficult, although sadly, from the BBC's point of view, QL200 and Commodore 64 programmes and no doubt can be made of PROCEDURES. This means that the prepared programmes available with BBC BASIC can't be reproduced.

I can recommend the book for its price, at simple, easy to understand approach, and for the way it gets the programming difficulties off your mind.

However, as various BASIC dialects are much more where programming in machine specific, such as colour and colour, but given justified explanations of ALADDIN/BASIC and ABBOTT. The later part of the book contains photocards, given a glossary of computer terms, a provision of a index and a brief buyers guide.

J W

Pri: £9.95

Publisher: Investor Publications

Address: 9/11 Kensington High St, London W8 1NP



Mapping the VIC

Although Commodore has withdrawn the VIC-20, there are still many thousands of users using the computer. Fortunately publishers such as Computer Books are releasing material for the VIC.

When you want to make the transition from BASIC to machine code, it is useful to have a grasp of the internal workings of the computer. This book provides a detailed description of how the VIC's memory is ROMed in user detail.

The functions of the various parts of the VIC's memory are discussed in depth and useful location and potential storage areas are indicated. Similarly, the routines in the ROM are described as standard data.

This material is supplemented by 14 application programs with source code and data. In all, over 400 pages of valuable information for less money.

A particularly useful section is the alphabetical list of entry points and execution locations. So far as I can see, the best details on the Internet and in the original about book.

I cannot find a single fault with this book — a very nice exercise. Each time I pick it up, I find a new, useful and exciting bugger. While the price is somewhat high, it's worth every penny and will find a place in every VIC owner's reference library.

A W

Pri: £11.95

Publisher: Hot Braden Computer Books

Address: 1 St. Asaph's Road, Buntingford, Hertfordshire, WD1 1LN



VIC-AD

AMSTRAD



TI99



GRAPHICS

Jon Ravis shows you how to switch colours without having to redraw

Color matching is a technique which allows the simulation of characters or designs without the need to retrace the designs for each document. As there is no time spent on retouching, rapid documents can be produced at reasonable cost.

The following example of colour selection will work on an Amstrad CPC464 Program I drew some sets of concentric boxes in different colours. In this change each PWL colour to black, whatever the background colour used. This effectively controls the screen. Using a GOSUB-NEXT loop each of the LINE colours is changed sequentially to white before being changed back to black. By working with the control box and working out, the colour switching creates the illusion of travelling down a tunnel into the screen. The majority of the commands used in the program can be found on most of today's basic computers so conversion shouldn't prove difficult.

1. IBM Program 1
10. IBM 820
20. PDP-11
30. PDP-11 + 820
40. MODULUS 200
50. PDP-11 + 170 820
60. MODULUS 140
70. MODULUS 120
80. MODULUS 1
90. MODULUS 200
100. MODULUS 400
110. MODULUS 400
120. MODULUS 400

```

100 REM CALCULATE NEW COORDINATES
200 X110 = X100 + 10
300 Y110 = Y100 - 10
400 X110 = X110 + 10
500 Y110 = Y110 - 10
600 RETURN

700 REM DRAW SQUARE
800 PSET X110,Y100
900 LINE(X100,Y100,X110,Y110)
1000 LINE(X110,Y100,X110,Y110)
1100 LINE(X110,Y110,X100,Y110)
1200 LINE(X110,Y110,X110,Y100)
1300 RETURN

1400 REM DRAW INITIAL COORDINATES FOR THE LINE
1500 I = 0
1600 REM X100,Y100
1700 PSET X = I TO Z
1800 READ X100,Y100
1900 NEXT I

2000 DATA 10,10,800,300
2100 RETURN

2200 REM CHANGE ALL COLOURS TO BLACK
2300 FOR P = 1 TO 100
2400 LINE X,P
2500 NEXT P
2600 RETURN

2700 REM CHANGE EACH COLOUR TO WHITE IN SEQUENCE
2800 FOR K = 10 TO 1 STEP -1
2900 INT 1,1,K
3000 FOR N = 1 TO 100 AND K = 100 STEP 100-100/K
3100 LINE X,O + K*PI BACK TO BLACK
3200 NEXT K
3300 RETURN

```

Nonzero Consumption means you can now make money by playing games. In most cases the map not be enough choices, but give you the hint that the GM is friendly there were many other randomly generated places you can down on programming. The GM's specialty map, east Pyramids, addresses 6004 to 6023. This means that the access is divided into 1000 sections, last out in 128000 units with each one containing 16 squares. In these the

statement **FORGE**, you can print a character sequence on the screen. The command **FORGE 1000,10** should place a cross on the top-left hand corner of the screen. If you try it, you will find that it doesn't, because you never told the machine what colour it was to be printed in.

Instead of using simple memory, like PES and EAC, Compaq have decided there should be a shared system memory, which would not have a page of protection. This

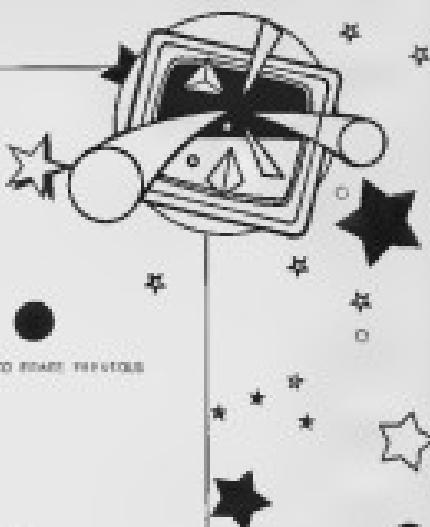


second area of memory, the color RAM, lies from address 32768 to 36287. To make our cursor appear on the screen we must POKE a color value into the color RAM at the same screen position as our character, i.e., POKE 32768,1 (1 is the code for yellow). Program 2 demonstrates the method of placing a character on the screen and then proceeds to animate it.

```

1 REM PROGRAM 2
2 PRINT " "
3 BASE = 32768
4 PI = 3.14159
5 COL = 255
6 POKE COL + PI,7
7 POKE BASE + PI,0
8 REM AND READ KEYBOARD + PRINT CHARACTER
9 KEY = PEEK(145)
10 POKE BASE + PI,0 : REM PRINT A BLANK SPACE TO ERASE PREVIOUS
CHARACTER
11 IF KEY = 13 THEN PI = PI - 1 : REM MOVE LEFT
12 IF PI < 1 THEN PI = 1
13 IF KEY = 28 THEN PI = PI + 1 : REM MOVE RIGHT
14 IF PI > 1000 THEN PI = 1000
15 IF KEY = 49 THEN PI = PI + 100 : PEN DOWN OF THE LINE
16 IF PI < 1 THEN PI = 1
17 IF KEY = 25 THEN PI = PI - 100 : PEN DOWN ONE LINE
18 IF PI > 1000 THEN PI = 1000
19 REM PRINT CHARACTER IN NEW POSITION
20 POKE COL + PI,7
21 POKE BASE + PI,0
22 GOSUB 20 : PEN UP ERASE AND READ NEXT KEY PRESS

```



By pressing the Z X / keys, the cursor can be made to move left, right, up, or down, respectively. Line 20 reads the keyboard and stores the screen code of any key pressed in the variable KEY. By dividing the contents of KEY against the values of the keys with which we are concerned we can then move the character in that direction.

up



SUMMING UP

To round off David Ellis's popular series for the Amstrad, we bring you a complete listing of m/c commands

RS232 printing errors

RS232C Error Codes
The eight most common should read:

RS232C	10	NO LOOP	20	RS
RS232C	30	BL	10	

RS232C Listing 1
The first entry should read:

RS232C	LB	8,1	6	1
--------	----	-----	---	---

Listing 2
The following lines should read:

20000	ADDRESS	=	87000	:	2	=	1	:	WHILE	J	OP	0
200020	IF	X>128	THEN	PRINT	CHR\$120	;	ELSE	PRINT	CHR\$0-120	,		

RS232C

The complete listing for the words **RIGHT** and **UP** is given, and has been printed on the last page of RS232C 106.

RS232C Columns 1

The following lines should read:

20	WORD	=	630	:	WHILE	WORD	>	0
----	------	---	-----	---	-------	------	---	---

In the memory of RS232C words
C00001 should read:

OFFSET	,	0FFPSET
--------	---	---------

David Ellis's series on RS232 words for the Amstrad CPC464 proved very popular. So much so, that we thought it'd interest your engineers by summarising the machine code sequences which set up all the RS232 words you need. If you type out the listing up to line 2000, you'll recognise all the new words you discovered in the series, to be used from BASIC.

Whether you want a repeat,

to help you clear up some minor confusion, or whether you only managed to catch a part of the series, the listing should make life easier.

We've also included some corrections. Many printing errors may have confused you — unless you were smart enough to work them out for yourself! Here are the amended lines — and, for your information, David Ellis's articles were printed in RS232C 91, 92, 93, 94, 101, 102, 104 and 105.

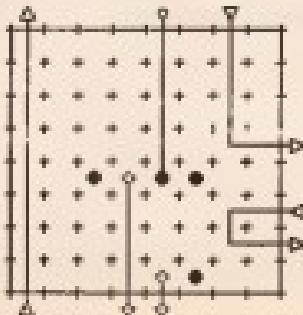
ATOM BOX



In this program by D J West you must find the atoms which are hidden in the box. Use your rays carefully or get penalty points.

There are seven or eight boxes and you must try and work out three positions by firing rays at them. A ray may be scattered, deflected, absorbed or reflected back through the same point. Each ray-tracer scores 10000 points. At any time during the game you may try and guess the position of an atom taking a five point penalty for an incorrect guess.

You know where your money goes.



THE BOSS

Score:

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CARRY KEY

© RECORD

— 1 —





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James Russell
explains
elementary
music theory to
start you off on
using your micro
to make music

PROBLEMS

There's a strange contradiction in starting to use your micro for music. Once you are reasonably proficient in programming, and you have a fair knowledge of music, you need a chance of doing something useful. At the other hand you know how to play an instrument and have little knowledge of the computer. Life can be very frustrating, taking hours attempting to sort out something which could be achieved in a very short time on your banjo!

Equally frustrating, however, is knowing how to progress your computer to play songs, or the very realised in my last article, but not knowing where to get the new voices from. If you can't read music and you have no knowledge of an instrument, where on earth do you start? Perhaps the only place is the written standard music notation, which may well be a frightening thought, if you've had no previous music lessons at school. If that thought doesn't put you off, then a short reminder as to how written music works might not be amiss.

Music is written on a system of five lines, with four spaces. From the bottom, the notes appearing on the lines are E G B D F, and those in the spaces are F A C E, usually remember as Every Good Boy Deserves Favour, and F.A.C.E., respectively. This is shown in Fig. 1.

Notes are placed either on the line or in a space. Unfortunately, the notation isn't flexible enough to show every note possible. As a result, small dots and spaces can be added above and below the main stems, representing the pattern of notes A to G thus repeating. One glance at your piano keyboard will show that they will not sound enough to cover what about three finger tips right and squeaked it?



Peter Gerrard

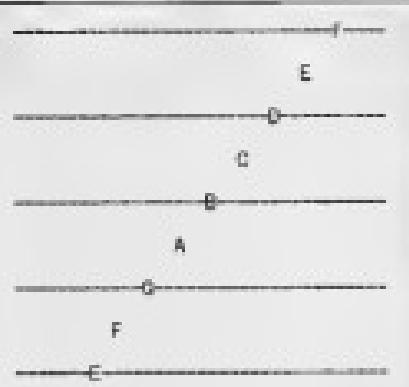
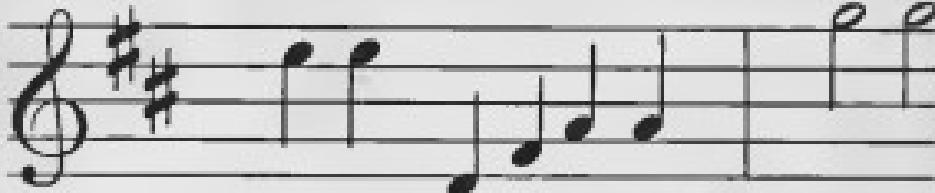


Fig. 1

The squashed bits are called flats, and several computer analysts don't mention them! The sharp sign denotes a sharp. That is, a flat note becomes the previous. As far as we're concerned, they mean the. If you find them at the be-

ginning of a line of music, say on the U line, then the note which you read has the value of a red G, but under G sharp (plus one), or C (plus one). G sharp is a higher note between G and A. G flat is a lower note between E and F.



Two problems now arise: some notes have two names, and some computer programs only recognise one of them! To save you pain, the following list should help. Starting from the lowest note, chosen above, the notes in order are:

E, F, F sharp/D flat, G, G sharp/A flat, A, A sharp/B flat, B, C/C sharp/D flat, D, D sharp/E flat, E.

Given this level of knowledge, you should be able to look at a simple note, work out what the notes are, then look them up in your manual to find the relevant codes or put in data statements for the parts of the note. It's not as difficult, however, because you still need to work out how long each note

should be, in other words, its duration. If you start out with a simple measure rhyme, then, for the moment, experiment with the value and size of it sounds until it does change at. You'll often further need that in a later article.

For those of you who are interested, trained musicians, no doubt irritated by the explanation, don't worry! If you don't have the programming skill but do have the musical knowledge, and a Spectrum, then you'll find that Music Processor Plus, Acornsoft's robot, TV Data Ltd, London NW8 7DR, £19.95 (was £24.95), will get you out of your misery. Complete with a piano keyboard control for the rubber key Spectrum, this

allows simultaneous synthesis, with all the facilities to be realised via the keyboard.

Up to 256 bars are可是ed for, and the resulting composition can be changed to a full-size piano via basic software. Though obviously monophonic, the results can be seen and heard simultaneously, then saved to tape. A supplementary program converts the data to machine code comments for use in your own programs. Sadly, however, it will not allow the Spectrum to be used as a musical instrument.

Commodore 64 and BBC owners with modest programming skill are well served by the recently published books *Music for the Commodore 64* and *Music for the BBC Micro*, both published by Prinova. In comes

type-in programs, take a look at *Will You Still Love Me When I'm 64*, by Peter Diamond, Darkworth, £4.95. For the BBC, *Exploring Music with the BBC Micro and Electron* (both a similar function, though the use of the Electron is limited. Written by Kevin Jones, and published by Prinova, it costs £9.95.

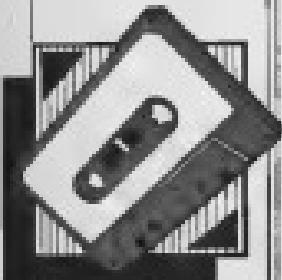
More specialised is *Electronic Music on the Commodore 64*, by Mark Bamford, £4.95. This not only gives the works on the 64, but also the realms of advanced music synthesis, and the creation of synthesizers from scratch, complete with sound processing. *Music Software* is also reviewed.

More next time!

SHEKHANA COMPUTER SERVICES

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DAY AT THE RACES



In Richard Batt's game you have not one but five chances to win the race.

The polo's fine and the odds are good." The stakes are high — \$100,000 to win the coveted polo money. Fortunately you have five chances to win as each afternoon's racing there are five races and the jockey who at first gains the post three or more times, wins at the end of the day.

To win the race you can skip your horses — but watch out! You can be fined for using the crop too much. The races were so tough and full excitement that no spectators were allowed on the premises.

Document 8

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1992-1993

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DIFFERENT from both
parents. She has much

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JOYSTICK



The Ultimate in JOYSTICK controls?

**Take a look at the Sure Shot Supreme
— and try saying that quickly!**

For some reason, people have always believed more often could be better, more does good, and more forces imposed with a joystick. Personally, I play fighter games with care, when finding opponents too stiff or too loose. Would that be any different, I wondered.

The Sure Shot is made by R.P. products, responsible for many of the controls found on arcade machines. It's nice to see this is a sturdy British-made product. It has an A-shaped plug, suitable for most machines or otherwise. The actual stick is not one of the popular plastic

types which are moulded to fit a clenched hand, but a simple metal rod, covered with an adequate plastic cylinder, also allows for a variety of holds, whatever you find most comfortable.

There are three fire buttons, one on top, and two on either side of the base position for left- and right-handed players. The two and four main directions are all responsive, but diagonal inputs didn't work. It usually behaved as a 'C' fire game I used. I also found the stick inaccurate for precision jumping games like Jetpac. Too, where you need to press fire and a direction at the same time.

The base is quite compact, but does not have proper, cushion grip pads on the bottom. I found it had 'half' spheres, which on my desk were liable to roll or even causing it to wobble. It is very good to hold in the hand though, but can be painful if you play a tough game.

I tested the stick on the longest game possible, Daley Thompson's Cross Country. I stood up very well — I cleaned my butt over seats and ended up looking more strained than the player! The joystick is based around microswitches, fitted to a metal chassis, and should last a long time. It worked well on the shoot-em-up I tried.

Although the point of a joystick will never quantifiable to me, if you keep having to look at the keys, it may be faster, and more accurate keyboard entering. This is an enormous, sturdy, well-built joystick. It doesn't require the Usborne to move it, neither is it overpriced. If you don't mind the lack of arms, the basic design and the poor dispensary, then it is thoroughly recommended. As a key player, I was impressed.

F.B.

Price: £49.95. Distributor: QL, 231 25, BBC 214 51, Electron 234 90.

Manufacturers: R.P. Products, Bury St Edmunds, Suffolk IP2 7AB, Tel: 039 46 62012. Distributors: Amico, 2001 222 222; Microline, 2001 222 222; Microline, 2001 222 222. Microline, Amico with suitable connector or vice versa.



BARNEY THE BROKER

There's money to be made in this game by Sean Conway — but look out for Barney the broker — he wants your cash!

Your bank manager has given you \$10,000 to invest and you want to invest it in the stock market. If you lose the money, then you'd probably end up buying back what you can't afford to lose.

"Look out for Berney the broker. He looks very honest but he might try and sell you some old shares."

Hyperlinks

- 1.** must keep volatility
 - 2.** minimum coverage
 - 3.** coverage for day
 - 4.** value of shares
 - 5.** total value of assets (stocks and shares)
 - 6.** market coverage
 - 7.** no change
 - 8.** number of shares to deal
 - 9.** number of shares at transaction value ($i = m - j$)
 - 10.** number of shares owned
 - 11.** amount made or lost on particular day
 - 12.** price of particular stock
 - 13.** total price
 - 14.** stock count
 - 15.** total market value today
 - 16.** change in stock value yesterday
 - 17.** total of money the broker has
 - 18.** no. of shares from 10
 - 19.** buy or sell = 100
 - 20.** price of shares = 100

The First

- 100-100 on DMS
101-100 border colors
102-100 red class
103-100 on variables
104-105 FAVOT rule system
105-106 auto loop
106-107 error conditions
107-108 read next process
108-109 start of new day
109-110 print initial names
and scores
110-114 market averaging
111-112 + account balance
112-113 have transaction
then do next
113-115 (CALC10) currency for books
114-115 portfolio
115-116 currency names
116-117 on + stock name
117-118 change price
118-119 print new price
on change
119-120 sign of header
120-121 stock and names
121-122 print price changes
on work sheet system
122-123 books rating as
+ cost of goods
123-124 total cost of goods
124-125 update price record
125-126 print date

0700 PRINT " " PWORD
0700 PRINT " " PWORD
0707 PRINT " " PWORD
0708 PRINT " " PWORD
0709 PRINT " " PWORD
0710 PRINT " " PWORD
0711 RETURN
10000 PRINT "HARDWARE
10000 PRINT "SP"
10010 LET P=104 103
10010 DPPS COTHERLIB=FILED1 PTH-AE
10010 DPPS COTHERLIB=PROF IT PTH-PS
10010 DPPS COTHERLIB
10010 PRINT "YOU HAVE MADE A \$200 OF LTPP
20000 GOTO 20024
20020 PRINT "YOU HAVE CHOICE WITH THE SPCE AMOUNT"
20020 PRINT "YOU STARTED WITH..."
20020 DPPS COTHERLIB=PROFOT-OTHERLIB="YOU NEED MORE PRACTICE" 10010
20020 DPPS COTHERLIB="YOU'RE NOT AS BAD AS A STOCKBROKER" 10010
10030 DPPS COTHERLIB=RECOMMENDTHETHELIB="YOU HAVE THE KING OF THE STOCKMA... T
10030 DPPS COTHERLIB=RECOMMENDTHETHELIB
10030 DPPS COTHERLIB=RECOMMENDTHETHELIB="YOU ARE STOCKBROKER PINTERAL" D
10030 DPPS COTHERLIB=RECOMMENDTHETHELIB="YOU COULD BE A GOOD BROKER" I
10030 DPPS COTHERLIB=RECOMMENDTHETHELIB="TUMBLIN' IS A NATURAL" 10010
10030 DPPS COTHERLIB=RECOMMENDTHETHELIB="YOU MUST BE THE WORLD'S BEST" 10010
10030 DPPS COTHERLIB=RECOMMENDTHETHELIB="DON'T SAY THE REAL THING" 10010
10040 DPPS COTHERLIB=RECOMMENDTHETHELIB="THERE'S NO HOPE FOR YOU" 10010
10045 RR1="NO RATING"
10045 GOSUB 10000
11000 PRINT "THAT'S THE END OF THE GAME" 11000 SHOPE YOU ENJOYED IT
11000 PRINT "SP"
11040 END
12000 PRINT "PRESS S TO STOP PRESS S SPACE S TO CONTINUE"
12000 GET PTYPE
12010 DPPS COTHERLIB
12010 RETURN
20000 CTRCHOCOLATE, WALLPAPER, PLASTIC SHOES, LAMP, THREE JACKS, WARREN
20000 CTRCHLTED GLASS, WATCH PARTS, ELECTRIC FLUOS, FISH REFILLS, JIN INDENTS
20010 CTRCHL WHO-OPP, NORTH FORECAST, SCHOOL HOLIDAYS, BBS IN
20010 CTRCHL INCREASE IN RECORD SALES, DECLINE IN RECORD SALES
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20040 CTRCHL DIGITAL WATCHES, UNPOPULAR, DIY SALES DECLINE
20045 CTRCHL 115, 185, 25, 75, 50, 120, 200, 180, 125
20050 REMAINING CTRCHL 10000
20055 CTRCHL 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16



PERIPHERAL



Jon Ravis gets to grips with the Demon modem

Demon modem

Computer communications is one aspect of computing which is becoming increasingly popular. Personally, I find it extremely exciting. No longer is your email limited by its little black — or in my case cream — box. From the comfort of your living room you can connect up to Prestel and use the many thousands of pages of information, download free commercial software, or leave messages for other subscribers. Around the country there are dozens of bulletin boards through which computer hobbyists can contact thousands of other users from all over the country. All of this can be yours via Fax to the skies. (See sidebar.)

There are three main modems available at a price range from £20 to £200. One modem which has just surfaced at the lower priced end of the market is the Demon. While a price tag of £20 you could probably assume that the Demon modem is a rather basic device, but it does "Prestel only" jobs.

This assumption couldn't be further from the truth. The Demon modem possesses all the facilities mentioned. It works with a selection of baud rates, being in your arm, a auto dial, auto answer and it's just popped out the box today!

As might be the case with these devices, it's only as good as the software that drives it. The Demon can be used in conjunction with Times and Communicator, but to make full use of the facilities it recommends that you purchase our Demon's Engine for a further £20. This provides many "..." commands which can be used directly from the keyboard or incorporated into a user's own programs.

The Demon has just three connections: the first is from a

9-pin serial port, the second is the lead which plugs into the BBC's serial interface socket, and the third is the plug which is inserted into a standard British Telephone wall socket. While on the subject of BT, the connection is appraised, probably because it can connect using American frequencies to access American Bulletin Boards. The two frequencies carry互相 exchange away! Finally, you just insert the Demon between line a few metres ROM socket and you have your prospect of international phone talk.

Using the Demon couldn't be easier. To log on to Prestel you type three commands: "BAUD 11", which sets up the modem to receive at 1100 baud and transmit at 11 baud, "TRSL followed by the number of the Prestel computer, and finally "PRESTEL". You will then be presented with that familiar Prestel log-on page! If you want to be a little more clever you can enter your customer identity number and password and remain for 10 days, the term of "KEY command".

Once the system has completed an connection it will present the contents of the business box, thereby logging in automatically. For Prestel users in London, there are seven and "TRSL11", will set up the local rate, dial the computer, and configure the computer as a Prestel terminal. When used in Prestel mode the ROM sets up the business box for every user session, would take, e.g. to use a frame in size, download Microsoft software, and change a frame in the process, but leaving the graphics present.

Business levels can be accessed in a similar way to Prestel. "BAUD 4", "TRSL", "TERMINAL". When using a bulletin board directly

after a Prestel session remember to enter "KEY 11". The first time I used this the computer entered my customer identity and Prestel password in ready to the bulletin board's "POST MESSAGE" prompt.

User-to-user communications are also catered for. With the MULTISND and "DLCALCD" commands data can transfer data in progress. Between two computers, the files, however, must be stored on disk and not memory.

The Auto Answer facility of the modem and software provides the capability for your BBC to be used as a bulletin board. It makes you to enter your own bulletin board address, many useful commands are present in the ROM. "TIMEOUT" allows you to set a limit when users are connecting your bulletin board. It automatically displays a warning message one minute before it terminates the call, by also providing a comprehensive set of error codes your software can be written in such a way that it can cope with any experience.

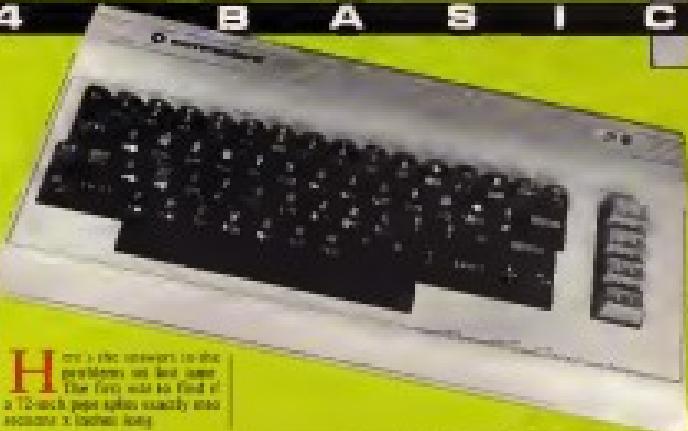
The more general commands are "STATS", which displays the current baud rate, whether the modem is on line, etc and "HOPPIT" which is the software equivalent of "resetting" the ROM from the machine.

For a total of £40 inclusive you could be the proud possessor of one of the most comprehensive communications packages around. Anyone want to buy a nice accredited acoustic coupler? Our website covers:

Manufacturer: Demon Products
Marketed by: Electronics Direct
Address: 20 Orange St, London WC1H 9ED

Brian Jones
discusses the
FOR/NEXT loop this week, and sets you
some more
problems to puzzle
out on your own.

WELCOME TO BASIC



Here's the answer to the problem set last week. The first was to find a 12-track tape split exactly into seven 16-track loops:

```
10 INPUT#1,1# OF SECTIONS
20 LET N=1#1
30 IF N>1#100 THEN PRINT#1,"GET EXACTLY THIS MUCH TAPE"
40 PRINT#1,"FOR THE 12-TRACK TAPE, AND IT IS 16 TRACKS"
50 PRINT#1,"SO IT IS 160 TRACKS OVER."
```

The second was to find the largest of a series of positive values, terminated by a negative number:

```
10 LET MAX=0
20 INPUT#1,1#1
30 IF #1>0 THEN RR
40 IF #1<0#100 THEN PRINT#1,"MAX IS "
50 GOTO 20
60 PRINT#1,"THE LARGEST WAS #1#1"
```

If you enter 10 2 14 12, 16 4 29, -1 you should get the answer 42.

Right, we're now armed. Probably the most common loop in BASIC is the *FOR* loop, but a loop known as the *FOR/NEXT* loop. This is the code favoured by those who like to fiddle with assembly language on the 6502. Results and loops. They RUN a program something like this:

```
10 FOR I=1#1 TO 10000
20 PRINT#1,"WHAT ARE YOU DOING"
30 NEXT I
```

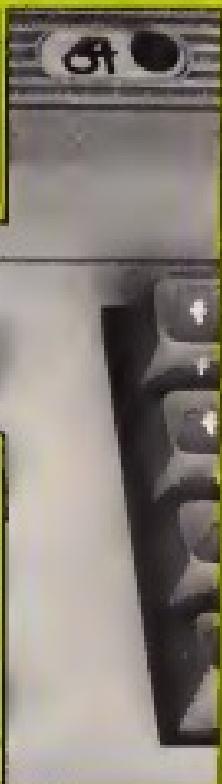
They run with their results over about a megabyte in about half an hour. Here's another example:

```
10 PRINT#1,INT(RND(1)*10000)
20 INPUT#1,1#1# OF SECTIONS
30 PRINT#1,"WHAT IS IT"
40 FOR I#1#1 TO 10000 STEP 1#1
50 LET COUNT=1#1, SUM=0
60 IF COUNT>1#100 THEN PRINT#1,COUNT," STOP"
70 PRINT#1,"WHAT IS IT"
80 NEXT I
```

So an iterative *FOR/NEXT* loop, using the *INT*, *RND*, *STEP* variables - user value 100 and value STEP length.



By incrementing the variable in above 1, but as you can see above, any value will do. The user value, and value used



length can be measured as a variable or even a formula. STEP length is expressed, a base distance value 1, then as, if you don't specify, it base length = 1.

You can have loops within loops. Try this program:

process, since how the *can*
be to keep the characters
joined together in the same
line. The many that after the
right number of characters has
been passed, it makes the
cursor go back so as move it on
the next line.

```

18 PRINT "A" CDB TORBING TURBULENT
19 INPUT "WHICH HEMP TORBECIT"
20 FOR I=1 TO N
21   X=RDG(I)
22   IF X>0.5 THEN MMH=1
23   MMH=0
24 END
25 PRINT "A" CDB TORBING TURBULENT

```

product whole number between 1 and 18, although $\text{RM}(2)(1)$ between the same as in *Compendium RM(2)*.

Right, I want to leave you with a simple short problem to work on.

1 Write a program to set and
obtain values by passing
two variables whose numbers
between 0 and 9. When the answer
is correct, give the program to
other computer as correct
else wait an appropriate

9 Get the computer to set up a sequence of 10 random digits on two random whole numbers. Let the user choose the larger number the computer will add. For each sum, report right or wrong and at the end give the score out of 10.

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Now, assuming you choose a range of between 1 and 25 and a width between 1 and 10, the program will display a solid block of characters as input. Although blocks of numbers could be used, I think the effect is much more with one of the graphic characters. In the

You may see progress when the NEXT is not followed by a visible name. Considerable initial progress that, but it's also from a progression of steps to get there until you are really sure of yourself.

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TOP 20

Compiled by
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SOFTWARE

Fortnight Ending April 16, 1988



Up and Coming

Sporting mega-fantasy baseball is the week's Gallup chart. There's World Series Baseball, rising high in the number position, or in third place in the chart.

Then there's Brian Jack's Superstar Challenge, which comes in at three other positions in the top 20, and Football Manager still hanging on in there in the number six position. The name has been in the Gallup chart for 20 weeks, and recently Kevin Town of Addison Games organized a celebration of 100,000 sales. Kevin McMenamy, Southwark-based manager, congratulated Mr Town on the game's runaway success. Football Manager has sold well over a thousand copies, and continues to look healthy.

Well in the sporting vein, Dale Thompson's Decathlon also shows well, and has featured in the Gallup chart for 20 weeks. US Gold's Brain Box profiled to number 10.

	NAME	PUBLISHER	FORMAT	PC	ATARI	COMMODORE	MSX	ZX SPECTRUM	BBC
1	World Cup	Videco		■	■				
2	World Series Baseball	Imagine		■	■				
3	Gladiator	Acclaim		■	■				
4	Brian Jack's Superstar Challenge	Marssoft		■	■				
5	Spy Hunter	US Gold		■	■				
6	Gremlin	Adventure International		■	■				
7	Impression Masters	DSS		■	■				
8	Football Manager	Adventure Games		■	■				
9	Dale Thompson's Decathlon	Brain		■	■				
10	Brain Box	US Gold		■	■				
11	Air Wolf	Ubi		■	■				
12	Crabs Goop	David		■	■				
13	Motor Cross	Interactive		■	■				
14	Breakthrough	Marssoft		■	■				
15	Rockin' Ball	U.S.		■	■				
16	Pole Position	Atari		■	■				
17	Platform Stepper	Microprose		■	■				
18	Replay	Videco		■	■				
19	Herculean	Brain		■	■				
20	Ball over Mars	US Gold		■	■				

SPECTRUM

Top Ten

- 1. World Cup
- 2. Spy Hunter
- 3. Pole Position
- 4. World Series Baseball
- 5. Motor Cross
- 6. Breakthrough
- 7. Gremlin
- 8. Dale Thompson's Decathlon
- 9. Brain Box
- 10. Brian Jack's Superstar Chal.

BBC

Top Ten

- 1. Dale Thompson's Decathlon
- 2. Pole Position
- 3. Breakthrough
- 4. Gremlin
- 5. Motor Cross
- 6. World Cup
- 7. Spy Hunter
- 8. Dale Thompson's Decathlon
- 9. Brain Box
- 10. Brian Jack's Superstar Chal.

COMMODORE

Top Ten

- 1. World Cup
- 2. Pole Position
- 3. Breakthrough
- 4. World Series Baseball
- 5. Motor Cross
- 6. Dale Thompson's Decathlon
- 7. Gremlin
- 8. Pole Position
- 9. Breakthrough
- 10. Dale Thompson's Decathlon

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**Great!**

Re: Wilkesbury's piece for last week March of the Day in HOW IT IS. I have achieved a score of 145 in the square maze and 61 in the ball.

While playing I found out the following tips don't use a joystick because it is much easier with the keyboard. When you are attacking go down the wall at the bottom of the screen and as soon as the not-yet-beaten enemies appear on the screen, shoot diagonally up or towards the left.

When you have a corner make the ball go along the floor and next to the wall and then it's towards the left and put the ball in the slot.

You can also win the game near the opponents' net and just direct it towards their net. The enemies will drive and you will make a goal.

Chris Martyn, 16, Belper

Drop meaning?

As a regular buyer of your magazine I have been disappointed by the number of TI owners writing in to say how bad their software is, complaining that software is expensive and that their machines don't fully support home magazines and the like. To this, there is little one can do in a positive, as complain about the price of software is hardly going to bring it down, and I am sure many readers concerned understand that TI software is expensive for us.

As for expense, as TI supporters state, and magazines like myself, are left in the individual owners and enthusiasts. By buying software from the companies through sites such as TI Software, or through magazines' Premium Reviews, showing how fast TI software can be produced and cheap enough has been published now to get through to the rest of the computer world.

Stephen Bradstock, Bexley

New Computer Works,
407 Station Square
London NW1 3AB

Video printing

Here's a tip for computer video tape users. When you turn off power and disconnect the video and television, take out the cassette tape from the computer. You have only one choice of tape.

This way you can replace the tape and reverse the video quickly and easily.

Bob Lewis, Walsall

White Lightning group

Participants of Oscar's White Lightning for the Children to raise money for the Children's Hospital of the Old Woman Creek, USA, will bring runners.

David Russell, 14, 100 West Dr, Rockdale, Illinois 60461

Dave's awards

I think that the computer industry ought to be presented with some more special awards, which the usual commendations will never give out. But if I could present awards, I would give them to the following people:

Firn in the Macintosh Prize award. This goes to someone who has done a design which I got free of a computer magazine. Last Christmas I got my end of the program before looking out with a leading editor, which probably happened at the beginning of the program.

Second is the "What I Want" award, which goes to Amstrad. I purchased a copy of the 16-Pack, and a couple of weeks later, to celebrate Dave de Matthes being voted program of the year, I could have bought and got a 16-Pack free — for the same price.

The third award is the June Way Peripheral and Hardware product competition-based award, which goes to AGF for my order on a Parallel 4 printer interface. Firn I paid a higher price than I should have done, because I used off an old order form. I sent the order afterwards, waited the 12-18 days delivery time and on the order form, waited even longer, but still no sign of the interface, but there was every sign of the device being raised very though.

Anyway, after waiting over a month, my dad phoned AGF to find out what had happened to my interface. He

got the old message of "Please pay us first in the post," but my dad didn't tell him to bring a postman.

A few days later, it arrived — received delivery, without even needing to make up the excess weight paid out on the envelope, so AGF, this man is the only award you are.

Next is the Peripheral which Jim Everly from Every Computer has won, which goes to CGE for its Macintosh version, which can cause any computer to start-up, thanks to its very independent living function. I was going to get this project, and I found out it was dangerous.

And finally, my last award goes to Home Computing Weekly for the Longest Wait for a Prize award. I have been waiting since June '82 for a prize for winning the Unique workshop competition. I have phoned up and asked a couple of times, but still no sign of my prize. Also I don't receive anything from the Unique Fair Competition. Personally, I think Unique has gone bust. After all, I did read that the organizer was formerly with the Radio 1000 radio show.

Shouldn't magazines make sure they have prizes to give away before they start competitions? That reminds me what were the results of the longest competition?

As you can see from my experiences, there are winners and losers in the computer industry — and I'm the loser! Don't you think I should get my award for that?

Dave Brown, Wetherby

Super Gran

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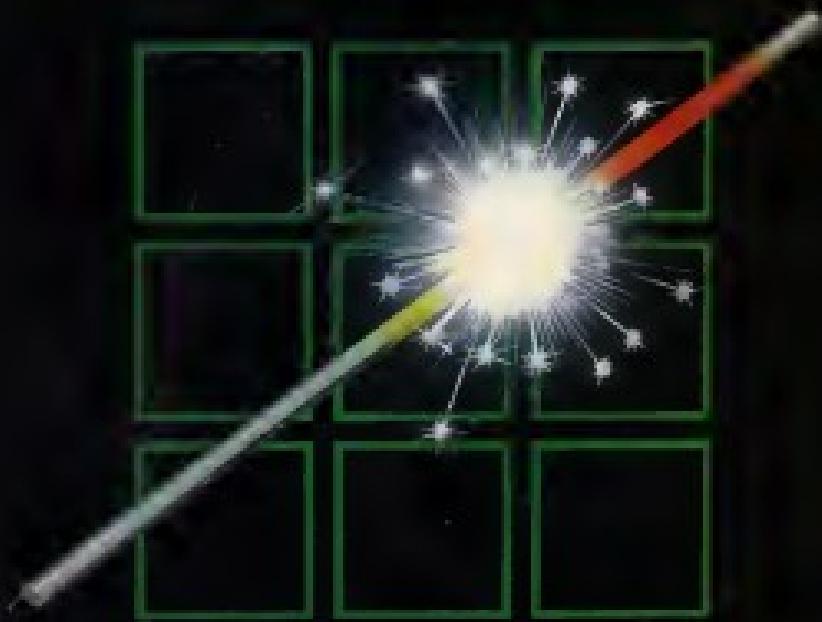
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